

**List of INSP161 specific sequences:****SEQ ID NO: 1 (INSP161 mature nucleotide sequence)**

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1  AAGACCACAC  CACATACCAA  ATTTACGAAG  AAATCTGAGG  AAAGAGAGAT
51  GCCAAAGGGT  CTAAAGCCAT  CCAGTGGCCC  ACCTCCAGAA  GAAGAAGAAA
101 CCCTCTTCAC  AGAAATGGCT  GAAATGGCAG  AACCAATTAC  CAAACCCTCG
151 GCCTTGGATT  CTGTCTTTGG  CACTGCCACT  CTCTCTCCCT  TTGAAAACTT
201 CACTCTTGAC  CCAGCTGATT  TCTTTTTGAA  TTGTTGTGAT  TGTTGTTTAC
251 CTGTACCCGG  GCAGAAAGGA  GAACCTGGAG  AGACTGGACA  GCCAGGTCCT
301 AAAGGAGAGG  CTGGAATTT  GGGGATCCCA  GGGCCACCAG  GAGTTGTTGG
351 GCCCCAAGGC  CCTAGAGGCT  ACAAAGGAGA  GAAAGGTGAA  CCTGGCCCTA
401 AGGGAGATAA  AGGAAACATT  GGTTTGGGAG  GAGTGAAAGG  AAAAAAGGC
451 TCCAAGGGAG  ACACATGTGG  GAATTGTACC  AAAGGAGAAA  AAGGAGACCA
501 AGGGGCTATG  GGCTCACCTG  GCCTGCACGG  AGGGCTGGC  GCCAAGGGAG
551 AGAAGGGGGA  GATGGGGGAG  AAGGGGGAGA  TGGGGGATAA  GGGCTGCTGT
601 GGAGATTCTG  GGGAGAGGGG  AGGAAAAGGA  CAGAAAGGTG  AGGGGGGTAT
651 GAAAGGGGAA  AAAGGTAGCA  AAGGAGACAG  TGGAATGGAA  GGCAAAAGCG
701 GCCGTAATGG  TCTGCCTGGG  GCCAAAGGTG  ATCCAGGGAT  TAAAGGAGAA
751 AAAGGAGAGT  TAGGTCCTCC  TGGTCTCCTG  GGACCTACTG  GGCCGAAGGG
801 TGACATTGGC  AACAAAGGGG  TCCGAGGCC  CACTGGGAAG  AAGGGCTCTC
851 GGGGCTTTAA  AGGCTCCAAG  GGTGAGTTGG  C

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**SEQ ID NO: 2 (INSP161 mature polypeptide sequence)**

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1  KTTPTHKFTK  KSEEREMPKG  LKPSSGPPPE  EEETLFTEMA  EMAEPITKPS
51  ALDSVFGTAT  LSPFENFTLD  PADFFLNCCD  CCSPVPGQKG  EPGETGQPGP
101 KGEAGNLGIP  GPPGVVGPOG  PRGYKGEKGE  PGPKGDKGNI  GLGGVKGQKG
151 SKGDTCGNCT  KGEKGDQAM  GSPGLHGGPG  AKGEKGEMGE  KGEMGDKGCC
201 GDSGERGGKG  QKGEKGMKGE  KSKGDSGME  GKSGRNLPG  AKGDPGIKGE
251 KGELGPPGLL  GPTGPKGDIG  NKGVRGPTGK  KSGRFGKSK  GELA

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**SEQ ID NO: 3 (INSP161-A nucleotide sequence)**

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1  TCCAGTGGCC  CACCTCCAGA  AGAAGAAGAA  ACCCTCTTCA  CAGAAATGGC
51  TGAAATGGCA  GAACCAATTA  CCAACCCTC  GGCCTTGGAT  TCTGTCTTTG
101 GCACTGCCAC  TCTCTCTCCC  TTTGAAAACT  TCACTCTTGA  CCCAGCTGAT
151 TTCTTTTGA  ATTGTTGTGA  TTGTTGTTCA  CCTGTACCCG  GGCAGAAAGG
201 AGAACCTGGA  GAGACTGGAC  AGCCAGGTCC  TAAAGGAGAG  GCTGGAAATT
251 TGGGGATCCC  AGGGCCACCA  GGAGTTGTTG  GGCCCCAAGG  CCTAGAGGC
301 TACAAAGGAG  AGAAAGGTGA  ACCTGGCCCT  AAGGGAGATA  AAGGAAACAT
351 TGGTTTGGGA  GGAGTGAAAG  GACAAAAGG  CTCCAAGGGA  GACACATGTG
401 GGAATTGTAC  CAAAGGAGAA  AAAGGAGACC  AAGGGGCTAT  GGGCTCACCT
451 GGCCTGCACG  GAGGGCCTGG  CGCCAAGGGA  GAGAAGGGGG  AGATGGGGGA
501 GAAGGGGGAG  ATGGGGGATA  AGGGCTGCTG  TGGAGATTCT  GGGGAGAGGG
551 GAGGAAAAGG  ACAGAAAGGT  GAGGGGGGTA  TGAAAGGGGA  AAAAGGTAGC
601 AAAGGAGACA  GTGGAATGGA  AGGCAAAAGC  GGCCGTAATG  GTCTGCCTGG
651 GGCCAAAGGT  GATCCAGGGA  TTAAAGGAGA  AAAAGGAGAG  TTAGGTCCTC
701 CTGGTCTCCT  GGGACCTACT  GGGCCGAAGG  GTGACATTGG  CAACAAAGGG
751 GTCCGAGGCC  CCACTGGGAA  GAAGGGCTCT  CGGGGCTTTA  AAGGCTCCAA
801 GGGTGAGTTG  GCTAGAGTGC  CCCGTCGGC  TTTCAGCGCT  GGTGTTGTC
851 AGCCATTTC  TCCTCCTAAC  ATCCCATCA  AATTTGAAAA  GATTCTCTAT
901 AATGACCAAG  GGAATTACAG  TCCTGTCACT  GGGAAAGTTA  ACTGCTCTAT
951 TCCTGGGACA  TATGTTTTTT  CCTACCATAT  TACGGTGAGG  GGGCGACCTG
1001 CTGCAATCAG  TCTGGTGGCC  CAGAATAAGA  AGCAGTTCAA  GTCCAGAGAA
1051 ACTCTCTATG  GTCAGGAAAT  AGACAGGCC  TCTCTCCTCG  TCATCTTGAA
1101 ATTAAGTGCA  GGAGACCAAG  TCTGGCTTGA  GGTGTCAAAA  GATTGGAATG
1151 GGGTGTATGT  CAGTGCTGAG  GATGACAGCA  TTTTACTG  GTTCCTTTTG
1201 TACCCAGAGG  AAACCTCTGG  AATTTACCA

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**SEQ ID NO: 4 (INSP161-A polypeptide sequence)**

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1  SSGPPPEEEE  TLFTEMAEMA  EPITKPSALD  SVFGTATLSP  FENFTLDPAD
51  FFLNCCDCCS  PVPGQKGEPG  ETGQPGPKGE  AGNLGIPGPP  GVVGPQGPRG
101 YKGEKGEPGP  KGDKNIGLG  GVKGQKGSKG  DTCGNCTKGE  KGDQGAMGSP
151 GLHGGPGAAG  EKGEMGEKGE  MGDKGCCGDS  GERGGKGQKG  EGGMKGEKGS
201 KGDSGMEGKS  GRNGLPGAAG  DPGIKGEKGE  LGPPGLLGPT  GPKGDIGNKG
251 VRGPTGKKGS  RGFKGSKGEL  ARVPRSAFSA  GLSKPFPPPN  IPIKFEKILY
301 NDQGNYSPT  GKFNCSIPGT  YVFSYHITVR  GRPARISLVA  QNKKQFKSRE
351 TLYGQEIDQA  SLLVILKLSA  GDQVWLEVSK  DWNGVYVSAE  DDSIFTGFL
401 YPEETSGISP

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**SEQ ID NO: 5 (INSP161-B nucleotide sequence)**

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1  TCCAGTGGCC  CACCTCCAGA  AGAAGAAGAA  ACCCTCTTCA  CAGAAATGGC
51  TGAAATGGCA  GAACCAATTA  CCAAACCCTC  GGCCTTGGAT  TCTGTCTTTG
101 GCACTGCCAC  TCTCTCTCCC  TTTGAAAAC  TCACTCTTGA  CCCAGCTGAT
151 TTCTTTTTGA  ATTGTTGTGA  TTGTTGTTCA  CCTGTACCCG  GGCAGAAAGG
201 AGAACCTGGA  GAGACTGGAC  AGCCAGGTCC  TAAAGGAGAG  GCTGGAATTT
251 TGGGGATCCC  AGGGCCACCA  GGAGTTGTTG  GGCCCCAAGG  CCCTAGAGGC
301 TACAAAGGAG  AGAAAGGTGA  ACCTGGCCCT  AAGGGAGATA  AAGGAAACAT
351 TGGTTTGGGA  GGAGTGAAAG  GACAAAAGG  CTCCAAGGGA  GACACATGTG
401 GGAATTGTAC  CAAAGGAGAA  AAAGGAGACC  AAGGGGCTAT  GGGCTCACCT
451 GGCCTGCACG  GAGGGCCTGG  CGCCAAGGGA  GAGAAGGGGG  AGATGGGGGA
501 GAAGGGGGAG  ATGGGGGATA  AGGGCTGCTG  TGGAGATTCT  GGGGAGAGGG
551 GAGGAAAAGG  ACAGAAAGGT  GAGGGGGGTA  TGAAAGGGGA  AAAAGGTAGC
601 AAAGGAGACA  GTGGAATGGA  AGGCAAAAGC  GGCCGTAATG  GTCTGCCTGG
651 GGCCAAAGGT  GATCCAGGGA  TTAAAGGAGA  AAAAGGAGAG  TTAGGTCCTC
701 CTGGTCTCCT  GGGACCTACT  GGGCCGAAGG  GTGACATTGG  CAACAAAGGG
751 GTCCGAGGCC  CCACTGGGAA  GAAGGGCTCT  CGGGGCTTTA  AAGGC

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**SEQ ID NO: 6 (INSP161-B polypeptide sequence)**

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1  SSGPPPEEEE  TLFTEMAEMA  EPITKPSALD  SVFGTATLSP  FENFTLDPAD
51  FFLNCCDCCS  PVPGQKGEPG  ETGQPGPKGE  AGNLGIPGPP  GVVGPQGPRG
101 YKGEKGEPGP  KGDKNIGLG  GVKGQKGSKG  DTCGNCTKGE  KGDQGAMGSP
151 GLHGGPGAAG  EKGEMGEKGE  MGDKGCCGDS  GERGGKGQKG  EGGMKGEKGS
201 KGDSGMEGKS  GRNGLPGAAG  DPGIKGEKGE  LGPPGLLGPT  GPKGDIGNKG
251 VRGPTGKKGS  RGFKG

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**SEQ ID NO: 7 (INSP161-C nucleotide sequence)**

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1  TCCAAGGGTG  AGTTGGCTAG  AGTGCCCGG  TCGGCTTTCA  GCGCTGGTTT
51  GTCAAAGCCA  TTTCCTCCTC  CTAACATCCC  CATCAAATTT  GAAAAGATTC
101 TCTATAATGA  CCAAGGGAAT  TACAGTCCTG  TCACTGGGAA  GTTTAACTGC
151 TCTATTCTGT  GGACATATGT  TTTTTCCTAC  CATATTACGG  TGAGGGGGCG
201 ACCTGCTCGA  ATCAGTCTGG  TGGCCAGAA  TAAGAAGCAG  TTCAAGTCCA
251 GAGAACTCT  CTATGGTCAG  GAAATAGACC  AGGCCTCTCT  CCTCGTCATC
301 TTGAAATTAA  GTGCAGGAGA  CCAAGTCTGG  CTTGAGGTGT  CAAAAGATTG
351 GAATGGGGTG  TATGTCAGTG  CTGAGGATGA  CAGCATTTTT  ACTGGGTTCC
401 TTTTGTACCC  AGAGGAAACT  TCTGGAATTT  CACCA

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**SEQ ID NO: 8 (INSP161-C polypeptide sequence)**

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1  SKGELARVPR  SAFSAGLSKP  FPPNPIPIKF  EKILYNDQGN  YSPVTGKFNC
51  SIPGTIVFSY  HITVRGRPAR  ISLVAQNKKQ  FKSRETLYGQ  EIDQASLLVI
101 LKLSAGDQVW  LEVSKDWNGV  YVSAEDDSIF  TGFLLYPEET  SGISP

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**SEQ ID NO: 9 (C1q nucleotide sequence)**

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1  GCTTTTCAGCG  CTGGTTTGTG  AAAGCCATTT  CCTCCTCCTA  ACATCCCCAT
51  CAAATTTGAA  AAGATTCTCT  ATAATGACCA  AGGGAATTAC  AGTCCTGTCA
101 CTGGGAAGTT  TAACTGCTCT  ATTCCTGGGA  CATATGTTTT  TTCTTACCAT
151 ATTACGGTGA  GGGGGCGACC  TGCTCGAATC  AGTCTGGTGG  CCCAGAATAA
201 GAAGCAGTTC  AAGTCCAGAG  AAATCTCTTA  TGGTCAGGAA  ATAGACCAGG
251 CCTCTCTCCT  CGTCATCTTG  AAATTAAGTG  CAGGAGACCA  AGTCTGGCTT

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301 GAGGTGTCAA AAGATTGGAA TGGGGTGTAT GTCAGTGCTG AGGATGACAG  
 351 CATTTTTACT GGGTTCCTTT TG

**SEQ ID NO: 10 (C1q polypeptide sequence)**

1 AFSAGLSKPF PPPNIPIKFE KILYNDQGN Y SPVTGKFNC S IPGTYVFSYH  
 51 ITVRGRPARI SLVAQNKKQF KSRETLYGQ E IDQASLLVIL KLSAGDQVWL  
 101 EVSKDWNQVY VSAEDDSIFT GELL

**SEQ ID NO: 11 (histidine tag INSP161 mature nucleotide sequence)**

1 AAGACCACAC CACATACCAA ATTTACGAAG AAATCTGAGG AAAGAGAGAT  
 51 GCCAAAGGGT CTAAAGCCAT CCAGTGCCCC ACCTCCAGAA GAAGAAGAAA  
 101 CCCTCTTCAC AGAAATGGCT GAAATGGCAG AACCAATTAC CAAACCCTCG  
 151 GCCTTGGAAT CTGTCTTTGG CACTGCCACT CTCTCTCCCT TTGAAAACCT  
 201 CACTCTTGAC CCAGCTGATT TCTTTTGTAA TTGTTGTGAT TGTGTGTCAC  
 251 CTGTACCCGG GCAGAAAGGA GAACCTGGAG AGACTGGACA GCCAGGTCCT  
 301 AAAGGAGAGG CTGGAAATTT GGGGATCCCA GGGCCACCAG GAGTTGTTGG  
 351 GCCCCAAGGC CCTAGAGGCT ACAAAGGAGA GAAAGGTGAA CCTGGCCCTA  
 401 AGGGAGATAA AGGAAACATT GGTGTTGGGAG GAGTGAAAGG AAAAAAGGC  
 451 TCCAAGGGAG ACACATGTGG GAATTGTACC AAAGGAGAAA AAGGAGACCA  
 501 AGGGGCTATG GGCTCACCTG GCCTGCACGG AGGGCCTGGC GCCAAGGGAG  
 551 AGAAGGGGGA GATGGGGGAG AAGGGGGAGA TGGGGGATAA GGGCTGCTGT  
 601 GGAGATTCTG GGGAGAGGGG AGGAAAAGGA CAGAAAGGTG AGGGGGGTAT  
 651 GAAAGGGGAA AAAGGTAGCA AAGGAGACAG TGGAATGGAA GGCAAAAGCG  
 701 GCCGTAATGG TCTGCCTGGG GCCAAAGGTG ATCCAGGGAT TAAAGGAGAA  
 751 AAAGGAGAGT TAGGTCCTCC TGGTCTCCTG GGACCTACTG GGCCGAAGGG  
 801 TGACATTGGC AACAAAGGGG TCCGAGGCC CACTGGGAAG AAGGGCTCTC  
 851 GGGGCTTTAA AGGCTCCAAG GGTGAGTTGG CCACCATCAC CATCACCAT

**SEQ ID NO: 12 (histidine tag INSP161 mature polypeptide sequence)**

1 KTHPHTKFTK KSEEREMPKG LKPSSGPPPE EEETLFTEMA EMAEPITKPS  
 51 ALDSVFGTAT LSPFENFTLD PADFFLNCCD CCSPVPGQKG EPGETGQPGP  
 101 KGEAGNLGIP GPPGVVGPQG PRGKGEKGE PGPKGDKGNI GLGGVKGQKG  
 151 SKGDTGGNCT KGEKGDQGM GSPGLHGGPG AKGEKGEMGE KGEMGDKGCC  
 201 GDSGERGGKG QKGEKGMKE KSGKDSGME GKSGRNLPG AKGDPGIKGE  
 251 KGELGPPGLL GPTGPKGDIG NKGVRGPTGK KSGRFGKGSK GELAHHHHHH

**SEQ ID NO: 13 (histidine tag INSP161-A nucleotide sequence)**

1 TCCAGTGGCC CACCTCCAGA AGAAGAAGAA ACCCTCTTCA CAGAAATGGC  
 51 TGAAATGGCA GAACCAATTA CCAAACCCTC GGCTTGAT TCTGTCTTTG  
 101 GCACTGCCAC TCTCTCTCCC TTTGAAAAC TCACTCTTGA CCCAGCTGAT  
 151 TTCTTTTGA ATTGTTGTGA TTGTTGTTCA CCTGTACCCG GGCAGAAAGG  
 201 AGAACCTGGA GAGACTGGAC AGCCAGGTCC TAAAGGAGAG GCTGGAAATT  
 251 TGGGGATCCC AGGGCCACCA GGAGTTGTTG GGCCCCAAG CCCTAGAGGC  
 301 TACAAAGGAG AGAAAGGTGA ACCTGGCCCT AAGGGAGATA AAGGAAACAT  
 351 TGGTTTGGGA GGAGTGAAAG GACAAAAAGG CTCCAAGGGA GACACATGTG  
 401 GGAATTGTAC CAAAGGAGAA AAAGGAGACC AAGGGGCTAT GGGCTCACCT  
 451 GGCTGCACG GAGGGCCTGG CGCCAAGGGA GAGAAGGGGG AGATGGGGGA  
 501 GAAGGGGGAG ATGGGGGATA AGGGCTGCTG TGGAGATTCT GGGGAGAGGG  
 551 GAGGAAAAGG ACAGAAAGGT GAGGGGGGTA TGAAAGGGGA AAAAGGTAGC  
 601 AAAGGAGACA GTGGAATGGA AGGCAAAAGC GGCCGTAATG GTCTGCCTGG  
 651 GGCCAAAGGT GATCCAGGGA TTAAAGGAGA AAAAGGAGAG TTAGGTCTCTC  
 701 CTGGTCTCCT GGGACCTACT GGGCCGAAGG GTGACATTGG CAACAAAGGG  
 751 GTCCGAGGCC CCACTGGGAA GAAGGCTCT CGGGGCTTTA AAGGCTCCAA  
 801 GGGTGAGTTG GCTAGAGTGC CCCGGTCGGC TTTACGCGCT GGTGTTGTCAA  
 851 AGCCATTTC TCCTCCTAAC ATCCCATCA AATTTGAAAA GATTCTCTAT  
 901 AATGACCAAG GGAATTACAG TCCTGTCACT GGGAAGTTTA ACTGCTCTAT  
 951 TCCTGGGACA TATGTTTTTT CCTACCATAT TACGGTGAGG GGGCGACCTG  
 1001 CTCGAATCAG TCTGGTGGCC CAGAATAAGA AGCAGTTCAA GTCCAGAGAA  
 1051 ACTCTCTATG GTCAGGAAAT AGACCAGGCC TCTCTCCTCG TCATCTTGAA

1101 ATTAAGTGCA GGAGACCAAG TCTGGCTTGA GGTGTCAAAA GATTGGAATG  
 1151 GGGTGTATGT CAGTGCTGAG GATGACAGCA TTTTACTGG GTTCCTTTTG  
 1201 TACCCAGAGG AACTTCTGG AATTTACCA CACCATCACC ATCACCAT

**SEQ ID NO: 14 (histidine tag INSP161-A polypeptide sequence)**

1 SSGPPPEEEE TLFTEMAEMA EPITKPSALD SVFGTATLSP FENFTLDPAD  
 51 FFLNCCDCCS PVPQGKGEPG ETGQPGPKGE AGNLGIPGPP GVVGPQGPRG  
 101 YKGEKGEPGP KGDKGNIGLG GVKGQKGSKG DTGNCNCKGE KGDQAGMGP  
 151 GLHGGPGAKG EKGEMGEKGE MGDKGCCGDS GERGGKGQKG EGGMKGEKGS  
 201 KGDSGMEGKS GRNGLPGAAG DPGIKGEKGE LGPPGLLGPT GPKGDIGNKG  
 251 VRGPTGKKGS RGFKGSKGEL ARVPSAFSA GLSKPFPPPN IPIKFEKILY  
 301 NDQGNYSPTV GKFNCISIPGT YVFSYHITVR GRPARISLVA QNKKQFKSRE  
 351 TLYGQEIDQA SLLVILKLSA GDQVWLEVSK DWNGVYVSAE DDSIFTGFL  
 401 YPEETSGISP HHHHHH

**SEQ ID NO: 15 (histidine tag INSP161-B nucleotide sequence)**

1 TCCAGTGGCC CACCTCCAGA AGAAGAAGAA ACCCTCTTCA CAGAAATGGC  
 51 TGAAATGGCA GAACCAATTA CCAAACCTC GGCTTGGAT TCTGTCTTTG  
 101 GCACTGCCAC TCTCTCTCC TTTGAAACT TCACTCTTGA CCCAGCTGAT  
 151 TTCTTTTGA ATTGTTGTGA TTGTTGTTCA CCTGTACCCG GGCAGAAAGG  
 201 AGAACCTGGA GAGACTGGAC AGCCAGGTCC TAAAGGAGAG GCTGGAAATT  
 251 TGGGGATCCC AGGGCCACCA GGAGTTGTTG GGCCCAAGG CCCTAGAGGC  
 301 TACAAAGGAG AGAAAGGTGA ACCTGGCCCT AAGGGAGATA AAGGAAACAT  
 351 TGGTTTGGGA GGAGTGAAG GACAAAAGG CTCCAAGGGA GACACATGTG  
 401 GGAATTGTAC CAAAGGAGAA AAAGGAGACC AAGGGGCTAT GGGCTCACCT  
 451 GGCTGTCACG GAGGGCCTGG CGCCAAGGGA GAGAAGGGGG AGATGGGGGA  
 501 GAAGGGGGGAG ATGGGGGATA AGGGCTGCTG TGGAGATTCT GGGGAGAGGG  
 551 GAGGAAAAGG ACAGAAAGGT GAGGGGGGTA TGAAAGGGGA AAAAGGTAGC  
 601 AAAGGAGACA GTGGAATGGA AGGCAAAAGC GGCCGTAATG GTCTGCCTGG  
 651 GGCCAAAGGT GATCCAGGGA TTAAGGAGA AAAAGGAGAG TTAGGTCTCT  
 701 CTGGTCTCCT GGGACCTACT GGGCCGAAGG GTGACATTGG CAACAAAGGG  
 751 GTCCGAGGCC CCACTGGGAA GAAGGGCTCT CGGGGCTTTA AAGGCCACCA  
 801 TCACCATCAC CAT

**SEQ ID NO: 16 (histidine tag INSP161-B polypeptide sequence)**

1 SSGPPPEEEE TLFTEMAEMA EPITKPSALD SVFGTATLSP FENFTLDPAD  
 51 FFLNCCDCCS PVPQGKGEPG ETGQPGPKGE AGNLGIPGPP GVVGPQGPRG  
 101 YKGEKGEPGP KGDKGNIGLG GVKGQKGSKG DTGNCNCKGE KGDQAGMGP  
 151 GLHGGPGAKG EKGEMGEKGE MGDKGCCGDS GERGGKGQKG EGGMKGEKGS  
 201 KGDSGMEGKS GRNGLPGAAG DPGIKGEKGE LGPPGLLGPT GPKGDIGNKG  
 251 VRGPTGKKGS RGFKGHHHHH H

**SEQ ID NO: 17 (histidine tag INSP161-C nucleotide sequence)**

1 TCCAAGGGTG AGTTGGCTAG AGTGCCCGG TCGGCTTTCA GCGCTGGTTT  
 51 GTCAAAGCCA TTTCCTCCTC CTAACATCCC CATCAAATTT GAAAAGATTC  
 101 TCTATAATGA CCAAGGGAAT TACAGTCCTG TCACTGGGAA GTTTAACTGC  
 151 TCTATTCTCT GGACATATGT TTTTTCCTAC CATATTACGG TGAGGGGGCG  
 201 ACCTGCTCGA ATCAGTCTGG TGGCCAGAA TAAGAAGCAG TTCAAGTCCA  
 251 GAGAACTCT CTATGGTCAG GAAATAGACC AGGCCTCTCT CCTCGTCATC  
 301 TTGAAATTAA GTGCAGGAGA CCAAGTCTGG CTTGAGGTGT CAAAAGATTG  
 351 GAATGGGGTG TATGTCAGTG CTGAGGATGA CAGCATTTT ACTGGGTTCC  
 401 TTTTGTACCC AGAGGAACT TCTGGAATTT CACCACACCA TCACCATCAC  
 451 CAT

**SEQ ID NO: 18 (histidine tag INSP161-C polypeptide sequence)**

1 SKGELARVPR SAFSAGLSKP FPPNPIPIK EKILYNDQGN YSPVTGKFNC  
 51 SIPGTYVFSY HITVRGRPAR ISLVAQNKKQ FKSRETLYGQ EIDQASLLVI  
 101 LKLSAGDQVW LEVSKDWNGV YVSAEDDSIF TGFLLYPEET SGISPHHHHH  
 151 H

**SEQ ID NO: 19 (histidine tag C1q nucleotide sequence)**

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1  GCTTTCAGCG CTGGTTTGTC AAAGCCATTT CCTCCTCCTA ACATCCCCAT
51 CAAATTTGAA AAGATTCTCT ATAATGACCA AGGGAATTAC AGTCCTGTCA
101 CTGGGAAGTT TAACTGCTCT ATTCTGGGA CATATGTTTT TTCCTACCAT
151 ATTACGGTGA GGGGGCGACC TGCTCGAATC AGTCTGGTGG CCCAGAATAA
201 GAAGCAGTTC AAGTCCAGAG AAATCTCTA TGGTCAGGAA ATAGACCAGG
251 CCTCTCTCCT CGTCATCTTG AAATTAAGTG CAGGAGACCA AGTCTGGCTT
301 GAGGTGTCAA AAGATTGGAA TGGGGTGTAT GTCAGTGCTG AGGATGACAG
351 CATTTTACT GGGTTCCTTT TGCACCATCA CCATCACCAT

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**SEQ ID NO: 20 (histidine tag C1q polypeptide sequence)**

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1  AFSAGLSKPF PPPNIPIKFE KILYNDQGN Y SPVTGKFNC S IPGTYVFSYH
51 ITVRGRPARI SLVAQNKKQF KSRETLYGQ E IDQASLLV L KLSAGDQVWL
101 EVSKDWNGVY VSAEDDSIFT GFLHHHHHH

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**SEQ ID NO: 21 (INSP161 nucleotide sequence)**

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1  ATGTATATAT TTTCTATTA TATCTTTCTT CCAGCTTCAA ATATGTGGAT
51 GTTTTCTTGG CTTTGTGCTA TTTTAATTAT TTTGGCTATT GCTGGTATGA
101 ACACAATAGC AAAGACCACA CCACATACCA AATTTACGAA GAAATCTGAG
151 GAAAGAGAGA TGCCAAAGGG TCTAAAGCCA TCCAGTGGCC CACCTCCAGA
201 AGAAGAAGAA ACCCTCTTCA CAGAAATGGC TGAAATGGCA GAACCAATTA
251 CCAAACCCTC GGCCTTGGAT TCTGTCTTTG GCACTGCCAC TCTCTCTCCC
301 TTTGAAAAC TCACTCTTGA CCCAGCTGAT TTCTTTTTGA ATTGTTGTGA
351 TTGTTGTTCA CCTGTACCCG GGCAGAAAGG AGAACCTGGA GAGACTGGAC
401 AGCCAGGTCC TAAAGGAGAG GCTGGAAATT TGGGGATCCC AGGGCCACCA
451 GGAGTTGTTG GGCCCCAAGG CCTAGAGGC TACAAAGGAG AGAAAGGTGA
501 ACCTGGCCCT AAGGGAGATA AAGGAAACAT TGGTTTGGGA GGAGTGAAAG
551 GACAAAAGG CTCCAAGGGA GACACATGTG GGAATTGTAC CAAAGGAGAA
601 AAAGGAGACC AAGGGGCTAT GGGCTCACCT GGCCTGCACG GAGGGCCTGG
651 CGCCAAGGGA GAGAAGGGGG AGATGGGGGA GAAGGGGGAG ATGGGGGATA
701 AGGGCTGCTG TGGAGATTCT GGGGAGAGGG GAGGAAAAGG ACAGAAAGGT
751 GAGGGGGGTA TGAAAGGGGA AAAAGGTAGC AAAGGAGACA GTGGAATGGA
801 AGGCAAAAG GCGCGTAATG GTCTGCCTGG GGCCAAAGGT GATCCAGGGA
851 TTAAAGGAGA AAAAGGAGAG TTAGGTCTCT CTGGTCTCCT GGGACCTACT
901 GGGCCGAAGG GTGACATTGG CAACAAAGGG GTCCGAGGCC CCACTGGGAA
951 GAAGGGCTCT CGGGGCTTTA AAGGCTCCAA GGGTGAGTTG GCTAGAGTGC
1001 CCCGGTCGGC TTTCAGCGCT GGTGTGTC AAAGCATTTCC TCCTCCTAAC
1051 ATCCCCATCA AATTTGAAAA GATTCTCTAT AATGACCAAG GGAATTACAG
1101 TCCTGTCACT GGGAAAGTTA ACTGCTCTAT TCCTGGGACA TATGTTTTTT
1151 CCTACCATAT TACGGTGAGG GGGCGACCTG CTCGAATCAG TCTGGTGGCC
1201 CAGAATAAGA AGCAGTTCAA GTCCAGAGAA ACTCTCTATG GTCAGGAAAT
1251 AGACCAGGCC TCTCTCCTCG TCATCTTGAA ATTAAGTGCA GGAGACCAAG
1301 TCTGGCTTGA GGTGTCAAAA GATTGGAATG GGGTGTATGT CAGTGCTGAG
1351 GATGACAGCA TTTTACTGG GTTCCTTTTG TACCCAGAGG AAATTTCTGG
1401 AATTTACCA

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**SEQ ID NO: 22 (INSP161 polypeptide sequence)**

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1  MYIFSYYIFL PASNMWMFSW LCAILILAI AGMNTIAKTT PHTKFTKKSE
51 EREMPKGLKP SSGPPPEEEE TLFTEMAEMA EPITKPSALD SVFGTATLSP
101 FENFTLDPAD FFLNCCDCCS PVPQKGEPEG ETGQPGPKGE AGNLGIPGPP
151 GVVGPQGP RG YKGEKGEPEG KGDKNIGLG GVKGQKGSKG DTCGNCTKGE
201 KGDQGAMGSP GLHGGPGAAG EKGEKGEKGE MGDKGCCGDS GERGGKQKQK
251 EGGMKGEKGS KGDGMEGKS GRNGLPGAAG DPGIKGEKGE LGPPGLLGPT
301 GPKGDIGNKG VRGPTGKKGS RGFKSGKSEL ARVPRSAFSA GLSKPFPFPPN
351 IPIKFEKILY NDQGNYSPTV GKFNCSIPGT YVFSYHITVR GRPARISLVA
401 QNKKQFKSRE TLYGQEIQA SLLVILKLSA GDQVWLEVSK DWNGVYVSAE
451 DDSIFTGFL YPEETSGISP

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**SEQ ID NO: 23 (histidine tag INSP161 nucleotide sequence)**

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1  ATGTATATAT TTTCTATTA TATCTTTCTT CCAGCTTCAA ATATGTGGAT

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51  GTTTCTTGG  CTTTGTGCTA  TTTTAATTAT  TTTGGCTATT  GCTGGTATGA
101 ACACAATAGC  AAAGACCACA  CCACATACCA  AATTTACGAA  GAAATCTGAG
151 GAAAGAGAGA  TGCCAAAGGG  TCTAAAGCCA  TCCAGTGGCC  CACCTCCAGA
201 AGAAGAAGAA  ACCCTCTTCA  CAGAAATGGC  TGAAATGGCA  GAACCAATTA
251 CCAAACCTC  GGCCTTGGAT  TCTGTCTTTG  GCACTGCCAC  TCTCTCTCCC
301 TTTGAAACT  TCACTCTTGA  CCCAGCTGAT  TTCTTTTGA  ATTGTTGTGA
351 TTGTTGTTCA  CCTGTACCCG  GGCAGAAAGG  AGAACCTGGA  GAGACTGGAC
401 AGCCAGGTCC  TAAAGGAGAG  GCTGGAAATT  TGGGGATCCC  AGGGCCACCA
451 GGAGTTGTTG  GGCCCCAAGG  CCCTAGAGGC  TACAAAGGAG  AGAAAGGTGA
501 ACCTGGCCCT  AAGGGAGATA  AAGGAAACAT  TGGTTTGGGA  GGAGTGAAAG
551 GACAAAAAGG  CTCCAAGGGA  GACACATGTG  GGAATTGTAC  CAAAGGAGAA
601 AAAGGAGACC  AAGGGGCTAT  GGGCTCACCT  GGCTGCACG  GAGGGCCTGG
651 CGCCAAGGGA  GAGAAGGGGG  AGATGGGGGA  GAAGGGGGAG  ATGGGGGATA
701 AGGGCTGCTG  TGGAGATTCT  GGGGAGAGGG  GAGGAAAAGG  ACAGAAAGGT
751 GAGGGGGGTA  TGAAAGGGGA  AAAAGGTAGC  AAAGGAGACA  GTGGAATGGA
801 AGGCAAAAGC  GGCCGTAATG  GTCTGCCTGG  GGCCAAAGGT  GATCCAGGGA
851 TTAAAGGAGA  AAAAGGAGAG  TTAGGTCCTC  CTGGTCTCCT  GGGACCTACT
901 GGGCCGAAGG  GTGACATTGG  CAACAAAGGG  GTCCGAGGCC  CCACTGGGAA
951 GAAGGGCTCT  CGGGGCTTTA  AAGGCTCCAA  GGGTGAGTTG  GCTAGAGTGC
1001 CCCGGTCGGC  TTTCAGCGCT  GGTTTGTCAA  AGCCATTTC  TCCTCCTAAC
1051 ATCCCCATCA  AATTTGAAAA  GATTCTCTAT  AATGACCAAG  GGAATTACAG
1101 TCCTGTCACT  GGGAAAGTTA  ACTGCTCTAT  TCCTGGGACA  TATGTTTTTT
1151 CCTACCATAT  TACGGTGAGG  GGGCGACCTG  CTCGAATCAG  TCTGGTGGCC
1201 CAGAATAAGA  AGCAGTTCAA  GTCCAGAGAA  ACTCTCTATG  GTCAGGAAAT
1251 AGACCAGGCC  TCTCTCCTCG  TCATCTTGAA  ATTAAGTGCA  GGAGACCAAG
1301 TCTGGCTTGA  GGTGTCAAAA  GATTGGAATG  GGGTGTATGT  CAGTGCTGAG
1351 GATGACAGCA  TTTTACTGG  GTTCCTTTTG  TACCCAGAGG  AAACCTCTGG
1401 AATTTACCA  CACCATCACC  ATCACCAT

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**SEQ ID NO: 24 (histidine tag INSP161 polypeptide sequence)**

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1  MYIFSYYIFL  PASNMWMFSW  LCAILIILAI  AGMNTIAKTT  PHTKFTHKSE
51  EREMPKGLKP  SSGPPPEEEE  TLFTEMAEMA  EPITKPSALD  SVFGTATLSP
101 FENFTLDPAD  FFLNCCDCCS  PVPQKGEPEG  ETGQPGPKGE  AGNLGIPGPP
151 GVVGPQGPRG  YKGEKGEPPG  KGDKNIGLG  GVKGQKGSKG  DTCGNCTKGE
201 KGDQAGMGSF  GLHGGPQAKG  EKGEKGEKGE  MGDKGCCGDS  GERGGKGQKG
251 EGGMKGEKGS  KGDGMEGKS  GRNGLPGAAG  DPGIKGEKGE  LGPPGLLGPT
301 GPKGDIGNKG  VRGPTGKKGS  RGFKGSKGEL  ARVPRSAFSA  GLSKPFPNPN
351 IPIKFEKILY  NDQGNYSPT  GKFNCSIPGT  YVFSYHITVR  GRPARISLVA
401 QNKKQFKSRE  TLYGQEIDQA  SLLVILKLSA  GDQVWLEVSK  DWNGVYVSAE
451 DDSIFTGFL  YPEETSGISP  HHHHHH

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